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ABSTRACT OF THE DISCLOSURE

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1 A modified Foley type catheter has a pressure sensor near the insertion end, an
2 inflatable balloon, a temperature sensor, a light ~~emitting means~~ ^{emitter}, and a blood oxygen level
3 detector near the light emitting means, all molded into the catheter tube wall. The oxygen
4 level sensor is arranged to receive light energy from tissue illuminated by the light source. All
5 required electrical conductors, and fiber optics elements if used, are molded into the catheter
6 wall and terminate in a connector near the access end. The balloon has a fluid supply conduit,
7 or channel, molded into the catheter wall and it terminates in a connector nipple near the
8 access end. A pulse detector ~~means~~ is derived from the association of the oxygen level sensor
9 and the required external signal ~~processing means~~ ^{processor}. All associated external signal ~~processing~~
10 ~~means~~ ^{processor} and output ~~indicator means~~ ^{indicators} currently exist for observation and recording. Rewiring
11 for suitable connector association with the novel catheter is well established in the art.